

WHAT IS CLAIMED IS:

1. A button alkaline battery cell comprising an anode shell containing an anode mixture, said anode shell being interlocked with a cathode cap containing a cathode mixture, said cathode cap having outward flange, a separator between the anode mixture and the cathode mixture, a gasket fastened on the outward flange, wherein said gasket has a bottom and an outer wall and is placed on the separator, wherein an open-end portion of said anode and an upper end portion of the outer wall of the gasket are bent to the cathode cap, the upper end portion of the outer wall of the gasket is pressed against the outer surface of the cathode cap; and wherein a sealant layer is filled in an interspace formed between the flange of the cathode cap and the gasket.
2. The button alkaline battery cell according to claim 1, wherein said gasket further comprises an inner wall, the bottom, the inner wall and the outer wall of the gasket form a groove, the flange of the cathode cap is located in the groove of the gasket, and a sealant layer is filled in the interspace between the flange of the cathode cap and the bottom, the inner wall, the outer wall of the gasket.
3. The button alkaline battery cell according to claim 2, wherein the thickness of the inner wall of the gasket decreases along its upward direction.
4. The button alkaline battery cell according to claim 1, wherein said button alkaline battery cell further comprises a separation layer attached to the inner wall of the cathode cap, the shape of said separation layer corresponding with the shape of the interior of the cathode cap, wherein the bottom of the separation layer is fastened to the upper side of the bottom of the gasket, and forms a groove with the bottom and the outer wall of the gasket; and wherein the flange of the cathode cap is located in the

groove, which is filled with a sealant layer.

5. The button alkaline battery cell according to claim 1, wherein said flange of the cathode cap is U-shaped.